Date: 2016.05
Version 5_03

ProTaq Plus DNA Polymerase

Cat No: PT-526 **Size** : 500 units(100 µl)
SA-526 25 units(5 µl)
Concentration: 5 units/µl

Product Description:

ProTaq Plus DNA Polymerase has an error rate of approximately 1 error per 1.0 x 10^5 nucleotides incorporated. PCR products generated with ProTaq Plus DNA Polymerase are A-tailed and may be cloned into TA cloning vectors. It can amplify up to 5kb specific DNA fragment from lambda DNA after 25 cycles.

Components: *Store at -20 °C*

- Storage Buffer :
  50 mM Tris-HCl (pH 8.0), 1 mM EDTA, 1 mM DTT, 50% (v/v) glycerol
- Reaction Buffer : 10X Buffer contains
  100 mM Tris-HCl (pH 9.0), 500 mM KCl, 0.1% (w/v) gelatin, 15 mM $MgCl_2$,
  1% Triton X-100

General Protocol:

Recommended PCR reaction mix:

Components	Quantity
ProTaq PlusDNA Polymerase (5 U/µl)	0.5 µl
10x Reaction Buffer	5 µl (1x)
25 mM $MgCl_2$	0 - 5 µl (0 - 2.5 mM)
10 mM dNTP mix	1 µl (200 µM)
Primer-Forward	0.3 - 1 µM
Primer-Reverse	0.3 - 1 µM
DNA template	1 - 100 ng
Sterile water	Up to 50 µl
Total	**50 µl**

*

Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95℃	2 - 5 min	1
Denaturation	95℃	30 - 60 s	25 - 35
Annealing	50 - 68 ℃	30 - 60 s	
Elongation	72℃	1 - 3 min	
Final elongation	72℃	5 - 10 min	1
stored	4℃	60 min	1

*IMPORTANT: Annealing temperature should be 2-6℃ lower than the primer melting temperature.

For Research Using Only.
Please do not hesitate to contact us if you have any questions.

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd
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